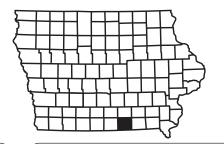
IOWA DEPARTMENT OF NATURAL RESOURCES

CONSTRUCTION DOCUMENTS FOR HONEY CREEK STATE PARK WASTEWATER CONVEYANCE SYSTEM APPANOOSE COUNTY, IOWA

PROJECT # 20-05-04-06



| | me or under my direct personal | ering document was prepared by supervision and that I am a duly under the laws of the State of Iowa. | _ 22. |
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| MGINEER | Mike Hamee | Digitally signed by Mike Hameed Date: 2021.01.15 11:03:01-06'00' | |
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| ER | My license renewal | date is December 31, 20 | 22. |
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PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF INSTALING TWO NEW DUPLEX LIFT STATIONS AT TWO LOCATIONS AND INSTALLING TWO NEW FORCEMAINS TO CONVEY THE WASTEWATER TO THE CENTRAL LAGOON SYSTEM.



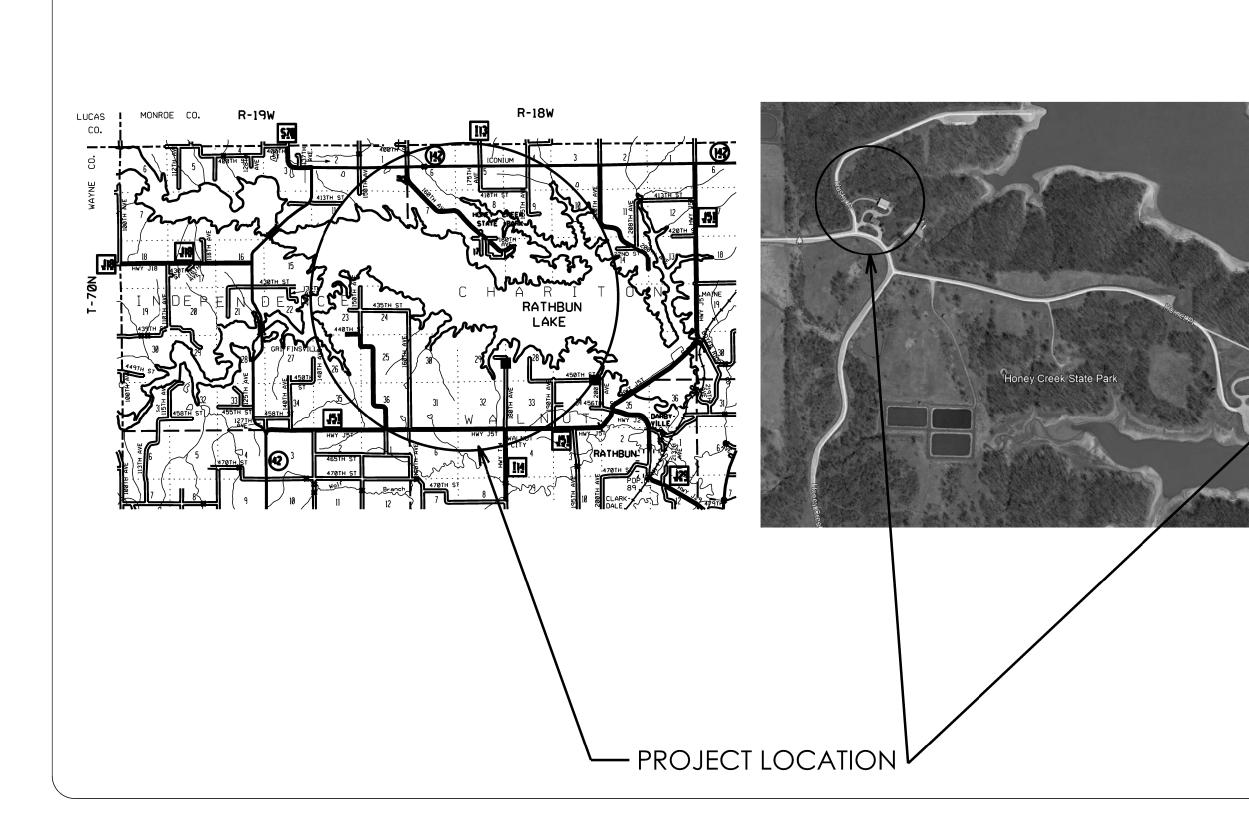
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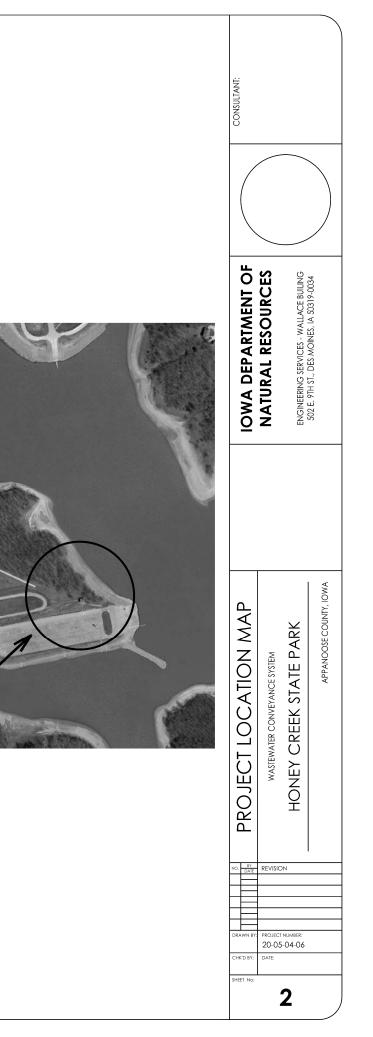


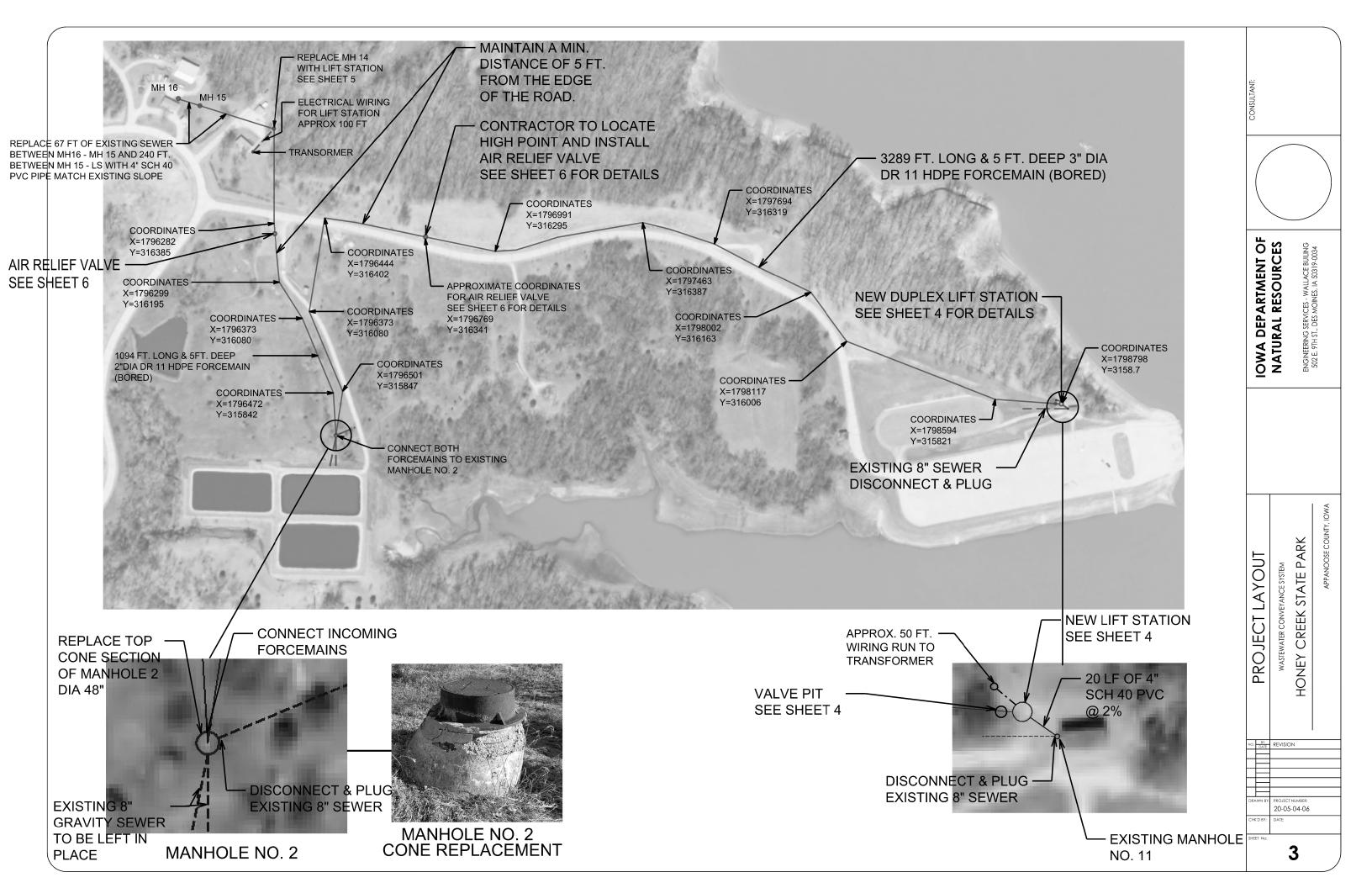
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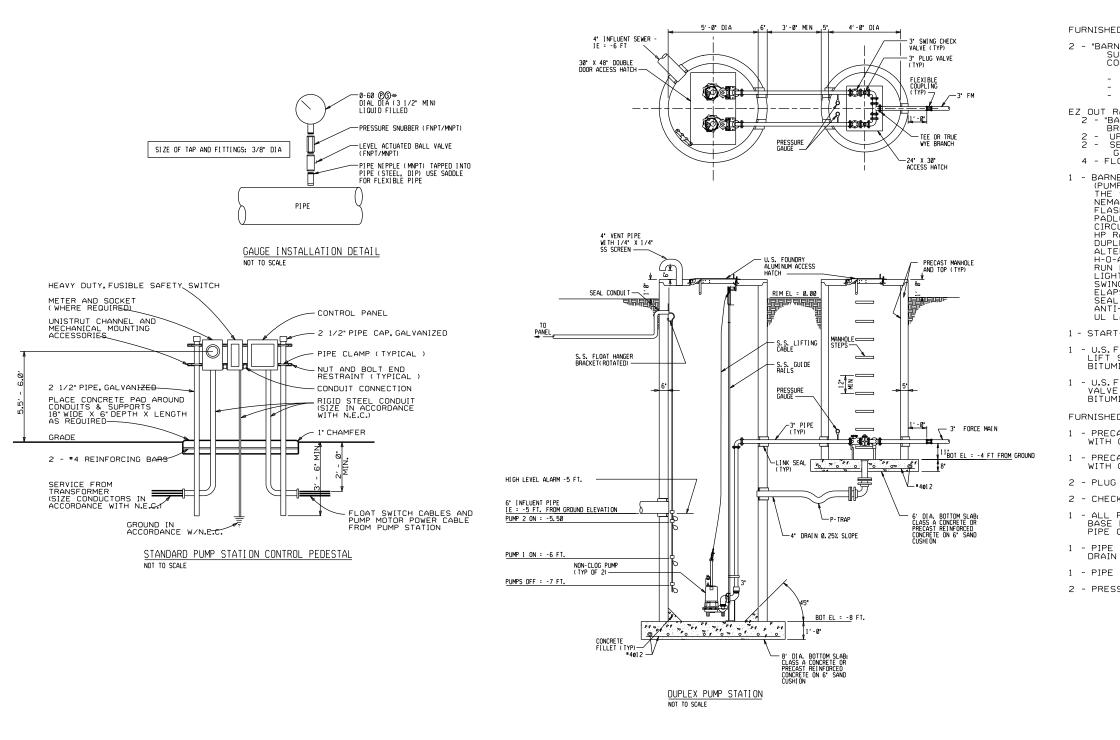
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| ITY,STATE,ZIP | |
| | |
| ONTACT | JASON KRUSE |
| ELEPHONE | 515-250-3707 |
| AΧ | |
| MAIL | jason.kruse@dnr.iowa.gov |
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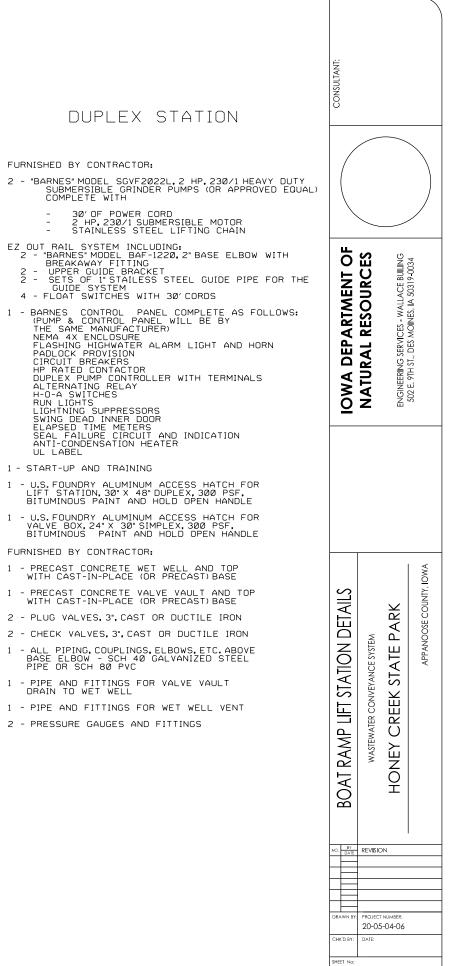
| | SHEET INDEX | | | | |
|---|-------------------------------------|--------------|------------------------------|--|------------------------|
| 1 | | | | | |
| 2 | LOCATION MAP | | | | |
| | | | | | |
| 3 | PROJECT LAYOUT | Ϋ́ | | | |
| 4 | BOAT RAMP LIFT STATION | IAI | | | |
| 5 | RESIDENCE LIFT STATION | CONSULTANT: | | | |
| 6 | AIR RELEASE MANHOLE AND ALARM PANEL | NO | | | |
| 7 | QUANTITIES AND GENERAL INFORMATION | 0 | | | |
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| | | COVER SHEET | WASTEWATER CONVEYANCE SYSTEM | HONEY CREEK STATE PARK | |
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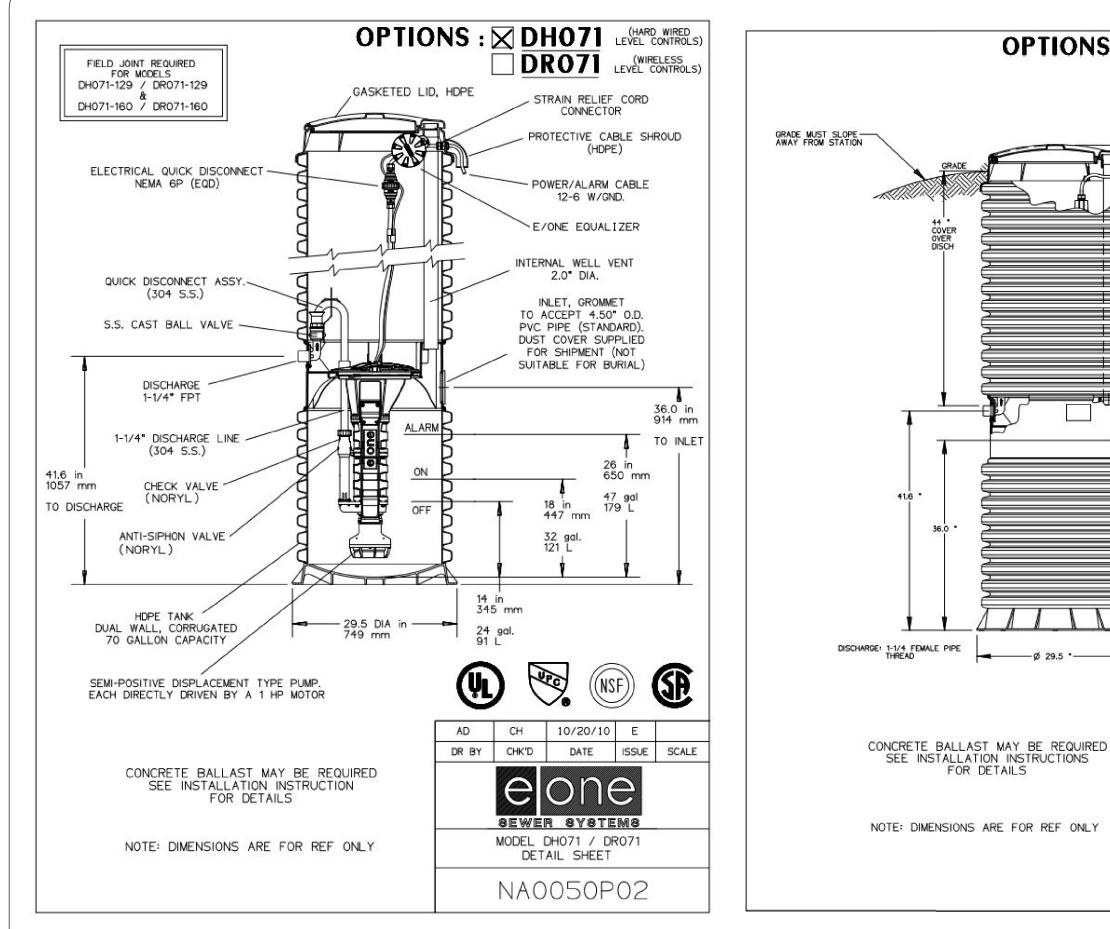




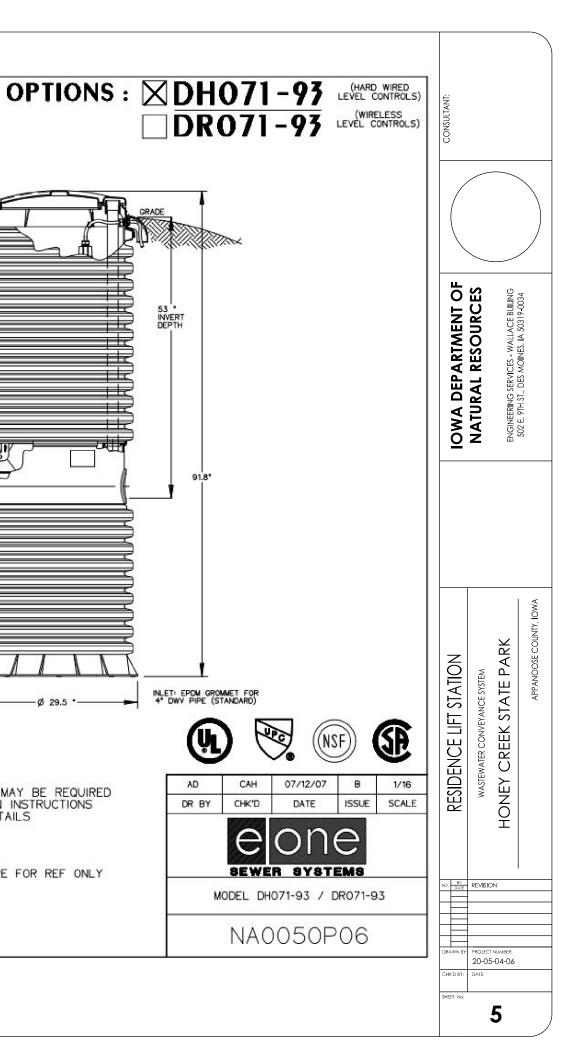




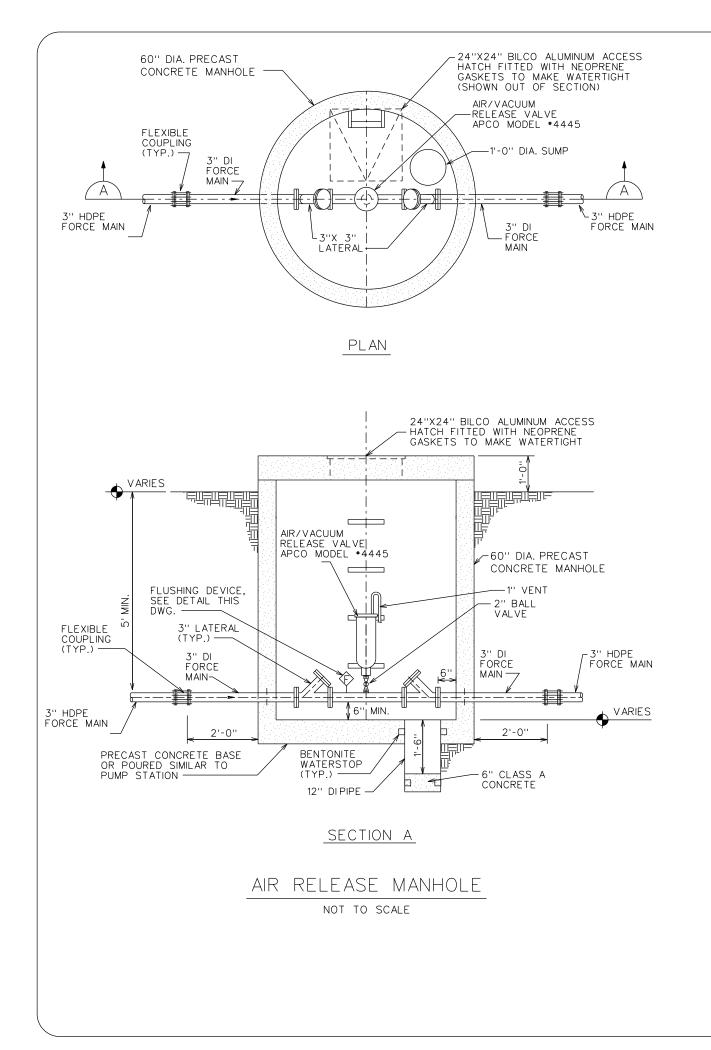


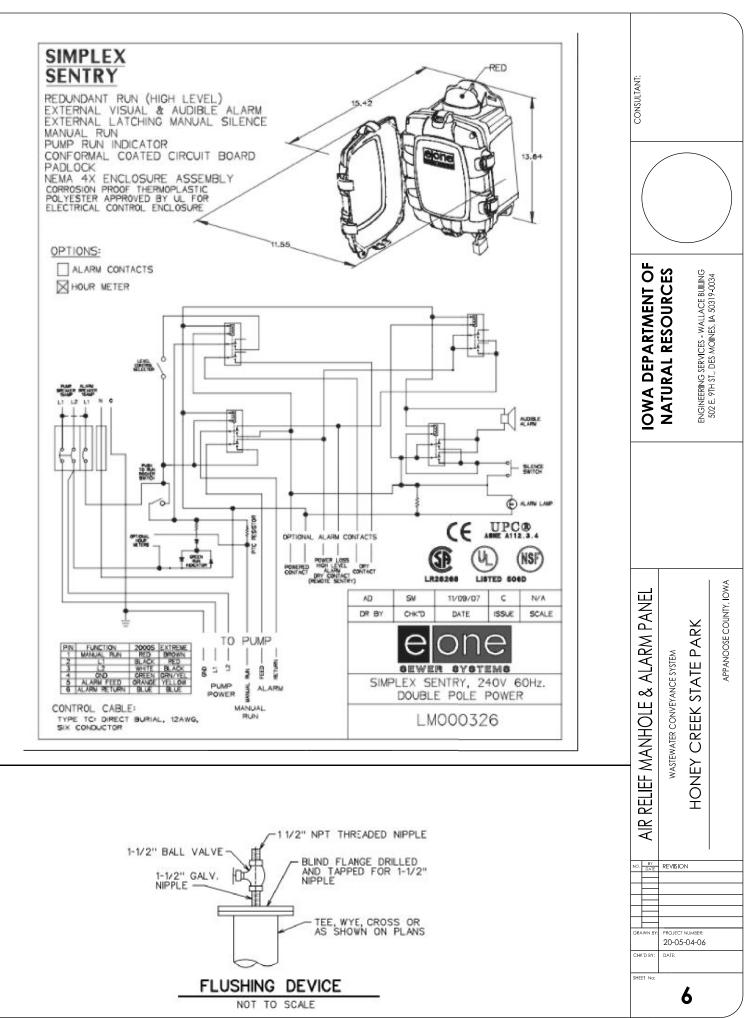


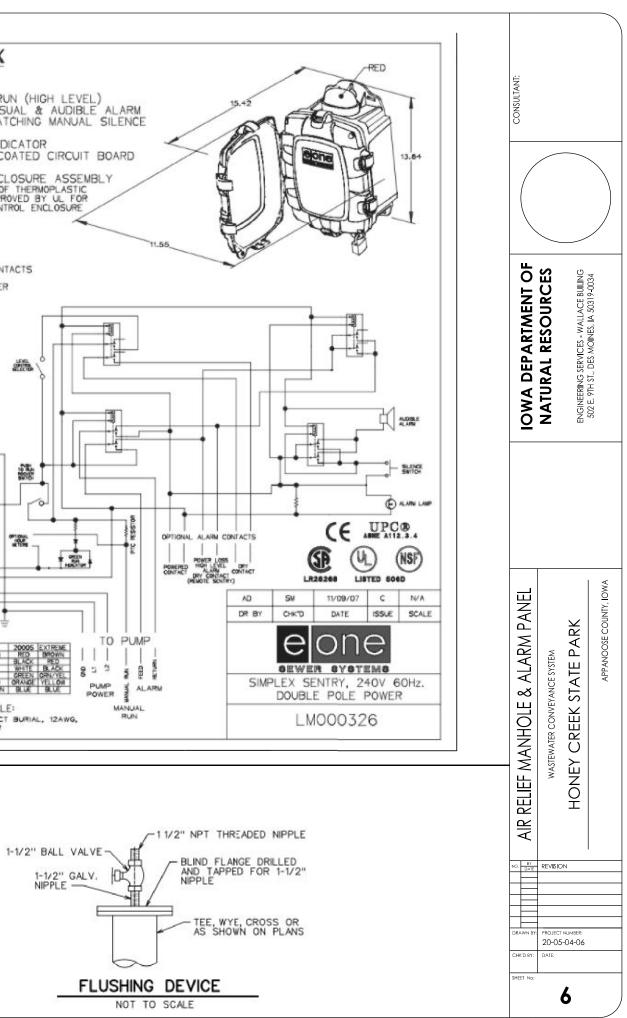
NOTE: FOR CONTROLS SEE SHEET 6



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ESTIMATED PROJECT QUANTITIES

| ITEM NO. | ITEM | UNIT | TOTAL |
|----------|---|----------|-------|
| 1 | MOBILIZATION | LUMP SUM | 1 |
| | | | |
| | BOAT RAMP RESTROOM LIFT STATION | | |
| 2 | 4-INCH SANITARY SEWER SERVICE (PVC SCH 40) WITH CONNECTIONS | LF | 20 |
| 3 | REMOVE & PLUG 8" SEWER AT MH 11 | LUMP SUM | 1 |
| 4 | INSTALL NEW DUPLEX LIFT STATION COMPLETE WITH CONTROLS & VALVE PIT | LUMP SUM | 1 |
| 5 | ELECTRICAL CONNECTION FROM TRANSFORMER (APROX. 50 FT.) | LUMP SUM | 1 |
| 6 | 3 INCH HDPE DR 11 FORCEMAIN WITH #12 TRACER WIRE | LF | 3289 |
| 7 | AIR RELIEF VALVE COMPLETE WITH MANHOLE | LUMP SUM | 1 |
| 8 | CONNECT FORCEMAIN WITH MH No. 2 | EACH | 2 |
| 9 | DISCONNECT AND PLUG 8" SEWER AT MH No. 2 | LUMP SUM | 1 |
| 10 | REPLACE CONE SECTION OF MH No.2, 48" DIA | LUMP SUM | 1 |
| | RESIDENCE LIFT STATION | | |
| 11 | REPLACE EXISTING SEWER BETWEEN MH 16 TO MH 15 & MH 15 TO PROPOSED | LF | 307 |
| | LIFT STATION (INCLUDING CONNECTIONS) WITH 4"PVC SCH 40. | | |
| 12 | REMOVE MH 14 & DISPOSE OFF SITE | LUMP SUM | 1 |
| 13 | INSTALL NEW E-ONE SIMPLEX LIFT STATION WITH CONTROLLER (OR APPROVED EQUIVALENT) | LUMP SUM | 1 |
| 14 | ELECTRICAL CONNECTION FROM TRANSFORMER (APROX. 100 FT.) | LUMP SUM | 1 |
| 15 | 2 INCH HDPE DR 11 FORCEMAIN WITH #12 TRACER WIRE | LF | 1094 |
| 16 | AIR RELIEF VALVE COMPLETE WITH MANHOLE | LUMP SUM | 1 |
| 17 | SITE RESTORATION FOR COMPLETE SITE | LUMP SUM | 1 |
| | | | |

ESTIMATE REFERENCE INFORMATION

DESCRIPTION

4 & 13 INCLUDES ELECTRICAL CONNECTIONS AND START UP

6 & 15 3 INCH & 2 INCH FORCEMAINS WILL BE BORED

ITEM

NO.

GENERAL NOTES

Verify actual locations and elevations with DNR Engineer.

All work shall conform to and be performed in accordance with al ordinances.

The contractor shall visit the site and inspect the project area and themselves with the actual job conditions prior to bidding and the visit the project site shall not relieve the contractor from performing to the plans, specification, special provisions and contract.

The contractor shall verify, at the site, all dimensions and condition shall notify the DNR Engineer of any discrepancies, omissions, and, proceeding with the work.

It shall be the contractor's responsibility to provide waste areas or material (excavated material or broken concrete) which is not desi into the work involved on this project. No payment for overhaul w hauled to these sites. No material shall be placed within the rightstated in the plans or approved by the DNR Engineer.

The contractor shall not disturb desirable grass areas and desirable construction limits. The contractor will not be permitted to park o equipment or use these areas for storage of materials. Storage, pa will be subject to the approval of the DNR Engineer.

Where utilities and fixtures are shown as Existing on the plans or e construction area, it shall be the responsibility of the contractor to of those utilities prior to the beginning of any construction. The co access to these facilities for necessary modification of services. Un structures and utilities have been plotted from available surveys ar their locations must be considered approximate only. It is possible existence of which is presently not known or shown. It is the contracter determine their existence and exact location and to avoid damage additional compensation will be allowed to the contractor for any i caused by such work.

The contractor shall shape graded area to maintain surface drainage finish grade.

The contractor is expected to have materials, equipment, and labo to install and maintain erosion control features on the project. The fence, rock ditch checks, silt basins or silt dikes.

All construction shall be in accordance with Satewide Urban Stand for public improvements (SUDAS). All construction testing to be in and is the expense of of the contractors.

| | :ĽN | | | |
|---|---------------------------------|------------------------------|--|-------------------|
| applicable codes and | CONSULTANT | | | |
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| horoughly familiarize start of work. Failure to ng the work in accordance | | | | |
| ns shown on the plans and or conflicts prior to | | | | / |
| disposal sites for excess rable to be incorporated ill be allowed for material of-way, unless specifically | OWA DEPARTMENT OF | RESOURCES | ENGINEERING SERVICES - WALLACE BUILING | |
| e trees outside the r service vehicles and rking and service areas | DWA DEP | NATURAL | ENGINEERING SERVIC | |
| ncountered within the notify the DNR Engineer intractor shall be afforded derground facilities, nd records and therefore there may be others, the actor's responsibility to thereto. No claims for nterference or delay | 2 | | ш | |
| ge. All elevations are to | AATION | | | JNTY, IOWA |
| r available on a daily basis s may involve seeding, silt | NFORN | STEM | E PARK | APPANOOSE COUNTY, |
| ard Design Specifications accordance with SUDAS | QUANTITIES AND GENERAL INFORMAT | wastewater conveyance system | HONEY CREEK STATE PARK | APP |
| | NO. BY DATE | REVISION | | |
| | DRAWN BY: | PROJECT N | JMBER: | |
| | CHK'D BY: | 20-05-0 |)4-06 | |
| | SHEET NO: | 7 | , | |